

Form C

Micro- Distributed Energy Resource (DER) Connection Application

For Connection of Micro-DER Facilities of ≤ 10kW

This form is applicable to individual or multiple generating units at the Customer's facility with total nameplate rating of <u>10 kW or less</u>. Your generation facility must generate electricity from a renewable energy source that is wind, water, solar radiation, or agricultural biomass.

Inverter-based generating units must not inject DC greater than 0.5% of the full rated output current at the point of connection of the generating units. The generated harmonic levels must not exceed those given in the CAN/CSA-C61000-3-6 Standards.

For generation size up to 10 kW, a Connection Impact Assessment will not be required. There may be a limitation on the number of micro-generation facilities that can be connected to the same distribution feeder.

IMPORTANT: All fields below are mandatory, except where noted. Incomplete applications may be returned by Newmarket-Tay Power Distribution Ltd. (NTPDL).

Please return the completed form by mail or email to:

Newmarket-Tay Power Distribution Ltd. 590 Steven Court Newmarket Ontario L3Y 6Z2 Attn: Embedded Generation

By Email: DER @nmhydro.ca

NOTE: Applicants are cautioned NOT to incur major expenses until application has been reviewed and Newmarket-Tay Power Distribution Ltd. approves to connect the proposed generation facility.

By submitting this Form, the Proponent authorizes the collection by Newmarket-Tay Power Distribution Ltd, of the information set out in the Form C and otherwise collected in accordance with the terms hereof, the terms of Newmarket-Tay Power Distribution Ltd.'s Conditions of Service, Newmarket-Tay Power Distribution Ltd.'s Privacy Policy and the requirements of the Distribution System Code and the use of such information for the purposes of the connection of the generation facility to Newmarket-Tay Power Distribution Ltd.'s distribution system.



Newmarket-Tay Power Distribution Ltd.

Da	te of Application:	(dd / mm / yyyy)
IES	60 reference number: (if applicable)	
1.	Project/Customer Name:	
2.	Proposed In-Service Date:	(dd / mm / yyyy)
3.	Project Information:	
	Owner	
	Company/ Person: Contact: Mailing Address:	
	Telephone: E-mail:	
	Installer - Engineering Consu Company/ Person: Contact: Mailing Address:	tant
	Telephone: E-mail:	
	Single Point of Contact:] Owner 🛛 Installer – Engineering Consultant
4.	Project Location: Address	
	City/Town Postal Code	
5.	Customer Status: Is the project b	eing built at an existing customer location?
	Existing Customer?	🗌 Yes 🔄 No
	If yes, Account Number:	
	Name of Account Holder*: (*must be the same name as applicant	or Net Metering)
	Are you an HST registrant?	🗌 Yes 🔄 No
	If yes, please provide your HST HST RT	registration number and a copy of your HST Registration:



Newmarket-Tay Power Distribution Ltd.

	Program Type:			
	Net Metering			
	Load Displacement			
	Emergency Backup			
	Other, please specify:			
7.	Project Type:			
	Solar Photovoltaic (rooftop)	Solar Photovoltaic (ground mount)		
	Wind Turbine	Battery Storage		
	Biomass	Bio-diesel		
	Diesel	Co-generation/Combined Heat and Power		
	Other, please specify:			
8.	Generator Type:			
	Inverter Synchronous	Induction		
9.	Project Size:			
	Is there an existing DER at the project location?	☐ Yes ☐ No		
		Proposed Existing (if applicable)		
	Number of Units (i.e. solar panels, batteries)			
	Nameplate Rating of Each Unit			
	T = (- 1	kW kW		
	Total	kW kW kW		
	Total Number of Generators/Inverters Nameplate Rating of Each Unit	KW KW KW KW KW		
	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total	kW kW kW kW kW kW kW kW kW kW		
	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on:	kW kW kW kW kW kW kW kW kW kW		
	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on:	kW kW		
10.	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on: Single phase	kW kW kW kW		
10.	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on: Single phase . Customer Owned Step-up Interface Transfor a. Transformer rating kVA	kW kW		
10.	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on: single phase Customer Owned Step-up Interface Transfor a. Transformer rating kVA b. High voltage winding connection	kW kW b three phase mer (if applicable): Star		
10.	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on: single phase Customer Owned Step-up Interface Transfor a. Transformer rating kVA b. High voltage winding connection Grounding method of star connected hig	kW		
10.	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on: single phase Customer Owned Step-up Interface Transfor a. Transformer ratingkVA b. High voltage winding connection Grounding method of star connected hig Solid Ungrounded	kW		
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10.	Total Number of Generators/Inverters Nameplate Rating of Each Unit Generator/Inverter Total Connecting on: single phase Customer Owned Step-up Interface Transfor a. Transformer rating kVA b. High voltage winding connection Grounding method of star connected hig Solid Ungrounded c. Low voltage winding connection Grounding method of star connected low	kW kW kW kW kW kW kW kW kW kW kW kW b kW kW kW		

<u>Note</u>: The term 'High Voltage' refers to the connection voltage to the distribution system and 'Low Voltage' refers to the generator / inverter output voltage.



11. Ge	enerator	/ Inv	erter	Information:	
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	a.	Manufacturer:				
	b.	Model No.				
	c.	Number of phases	Single Phase	Three Phase		
	d.	Nameplate rating:	kW			
	e.	Generator / Inverter AC	output voltage	Volts		
	f.	Type of inverter:	Self-commutated	Line- commutated		
			Other, please spec	cify		
	g.	Are power factor correct	tion capacitors automat	tically switched off when generator breaker opens?		
		🗌 Yes 🗌 No				
	h.	Is the generator / invert	er paralleling equipment	nt and / or design pre-certified and meets anti-islandir	ıg	
		test requirements?				
		🗌 Yes 🗌 No				
	i.	If answer to the above of	question is Yes, to which	h standard(s), e.g. CSA C22.2 No. 107.1-01, UL1741	Ι,	
		etc.				
	j.	Method of synchronizing the generator / inverter to system				
		🗌 Manual 🗌 Aut	tomatic			
	k.	Maximum inrush curren	nt upon generator or inve	erter connection (I _{inrush} / I _{rated}) per unit		
12.	Gri	d Interface Controller (if applicable):			
	a.	Manufacturer:				
	b.	Model Number:				

13. Type of Connection:

Refer to Electrical Safety Authority (ESA) reference document, "*Electrical Guidelines for Inverter-Based Micro Generation Facilities (10 kW and smaller)*".

- a. Darallel Meter Connection
- **b.** Net Metering / Load Displacement Connection

14. Single Line Diagram (SLD):

Provide an SLD of the DER facility including the location of the external disconnect switch and Interface Point to Newmarket-Tay Power Distribution Ltd.'s distribution system.

Applicant Name (Print):

Date: